

## **CERME8: Working Group 8**

### **Affect and mathematical thinking**

#### **Leaders**

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#### **Scope and Focus of WG8**

The importance of affect in mathematical thinking, learning and teaching has been widely recognized in mathematics education. Affective variables can be seen as indicative of learning outcomes and as predictive of future success. The range of concepts used in this area is wide, with terms such as beliefs, attitudes, emotions, anxiety, self-esteem, interest, motivation, needs, goals, and identity.

The studies in the field of affect are structured around three main themes of research and discussion: a) the theorisation of affective factors and the clarification of affective constructs b) the analysis of the mutual relationship between affective constructs and their connection to cognition and other constructs studied in mathematics education and c) the description of programs for promoting aspects of affect.

We welcome these and other perspectives in a discussion for deeper understanding of the role of affect in mathematical thinking and learning, and in research on mathematics education.

#### **Call for papers and poster proposals**

In Working Group 8 we welcome theoretical, methodological, empirical or developmental papers (10 pages maximum) and poster proposals (2 pages) on issues such as the following, though any paper/poster of relevance to the overall focus of the group will also be considered:

- Theorisation of affective factors, synthesizing theories and analyzing data from different perspectives;
- Clarification of different dimensions of affect and their relationships;
- Qualitative and quantitative approaches in the development of the affective domain, development of measurement instruments and other methodological tools for research on affect;
- Affective domain and other areas in the realm of mathematics education;
- Role of affective variables in mathematical thinking, learning, teaching and problem solving;
- Longitudinal studies on affect;
- Comparative studies on affect, affect as social, cultural phenomenon and lifelong learning;
- Change and affect. Development of learning communities that foster positive affective climate;
- Affective factors emerging in research studies not focused on affective aspects;

The focus of the research may vary from individual students and classrooms, teachers and student teachers to people in everyday life.

Papers and poster proposals should use the CERME8 WORD template, and conform to the guidelines at <http://www.cerme8.metu.edu.tr>. To submit it, you must email your paper as a WORD document to Marilena Pantziara at [marilena.p@cytanet.com.cy](mailto:marilena.p@cytanet.com.cy), AND at the same time to the conference secretariat at [accerme8@metu.edu.tr](mailto:accerme8@metu.edu.tr). If possible please also send a pdf version *in addition* to the WORD document.

#### **Reviews and Decisions**

Each paper will be peer-reviewed by three persons from among those who submit papers to this Working Group. Please expect to be asked to review up to three papers yourself between 15<sup>th</sup> September and 22<sup>nd</sup> October 2012. It may be necessary for you to revise your paper before final acceptance. Please reserve some time to do this in the second half of November. The group leaders will decide about the acceptance of posters.

#### **Important dates**

- 15<sup>th</sup> September 2012: Deadline for submission of papers.  
1st October 2012: Deadline for submission of poster proposals.  
22<sup>nd</sup> October 2012: Deadline for reviewers to submit their reviews.  
1st December 2012: Deadline for revisions to papers.